#### => d l21 1-16 ibib abs hitstr hitind

L21 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:405429 HCAPLUS

DOCUMENT NUMBER:

142:435832

TITLE:

Pharmaceutical formulations for carrier-mediated

transport statins and uses thereof

INVENTOR(S):

Butler, Jackie; Devane, John; Stark,

Paul

PATENT ASSIGNEE(S):

Athpharma Limited, Ire.

SOURCE:

PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

:	PATENT NO WO 2005041939					KIN	D <sup>.</sup>	DATE		٠.	APPL:	DATE						
						<b>A</b> 1		20050512			WO 2004-IB3849					2	00410	
															_	29		
		W:	CH, GB, KR,	CN, GD, KZ,	CO, GE, LC,	CR, GH, LK,	CU, GM, LR,	AU, CZ, HR, LS, NZ,	DE, HU, LT,	DK, ID, LU,	DM, IL, LV,	DZ, IN, MA,	EC, IS, MD,	EE, JP, MG,	EG, KE, MK,	ES, KG, MN,	FI, KP, MW,	
			SE,	SG,	SK,		SY,	TJ,								-	=	,
			AM, DE, PT,	AZ, DK, RO,	BY, EE, SE,	KG, ES, SI,	KZ, FI, SK,	MW, MD, FR, TR,	RU, GB, BF,	TJ, GR,	TM, HU,	AT, IE,	BE, IT,	BG, LU,	CH, MC,	CY, NL,	CZ, PL,	
•						A1		2005	0602	US 2004-967167						200410 19		
PRIORITY APPLN. INFO.:										1	US 2003-516770P				:		200311 04	
										1	US 20	004-9	9671	67	į	A 2 1	00410 9	

AB The present invention relates to formulations comprising therapeutically effective amts. of at least one acid-stable,

carrier-mediated transport statin, at least one poorly water-sol., carrier-mediated transport statin, or at least one large mol. wt., carrier-mediated transport statin, such as atorvastatin and rosuvastatin, or a pharmaceutically acceptable salt thereof, and methods of their use. The present formulations and methods are designed to exhibit a controlled-release of a therapeutic amt. of the statin in the small intestine, thereby limiting systemic exposure of the statin and maximizing liver-specific absorption of the drug. The formulations and methods of the present invention are particularly useful for treating and/or preventing conditions that are benefited by decreasing levels of lipids and/or cholesterol in the body. Modified-release compressed tablets contained atrovastatin 5.00, lactose 45.58, Avicell PH101 28.72, Methocel K100LV 20.00, colloidal silicon dioxide 0.20, and magnesium stearate 0.50%.

IC ICM A61K009-20

ICS A61K009-28; A61K031-40; A61K031-505; A61P003-06

CC 63-6 (Pharmaceuticals)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:259869 HCAPLUS

DOCUMENT NUMBER:

142:322767

TITLE:

Treatment of gastroparesis and nonulcer

dyspepsia with gabab agonists

INVENTOR (S):

Devane, John; Butler, Jackie AGI Therapeutics Ltd., Ire.

PATENT ASSIGNEE(S):

PCT Int. Appl., 68 pp.

SOURCE:

DOCUMENT TYPE:

CODEN: PIXXD2

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT :	NO.			KIND		DATE			APPLICATION NO.						DATE		
WO 2005	A1 2005032			0324	WO 2004-IB3299												
														2	00409		
														1	0		
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,		
	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,		
	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,		
	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,		
	MX,	MZ,	NA,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,		
	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UZ,		

VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,

DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,

PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

GW, ML, MR, NE, SN, TD, TG

US 2005090554 A1 20050428 US 2004-935176

200409

08

PRIORITY APPLN. INFO.:

US 2003-502242P

200309

12

US 2004-553940P

200403

18

The present invention relates to formulations comprising a therapeutically effective amt. of baclofen or (R)-baclofen, or pharmaceutically acceptable salts thereof, and methods of their use. The present formulations and methods are designed to release a therapeutic amt. of baclofen in a manner that maximizes its therapeutic effect. The methods and formulations are esp. suitable for treating gastroparesis and nonulcer dyspepsia. A modified-release tablet contained (R)-baclofen 2.5, lactose 20.58, microcryst. cellulose 51.22, Methocel 20.00, colloidal silicon dioxide 0.20, magnesium stearate 0.50, and PVP 5.0%. Pharmacokinetics of the tablets were studied in healthy volunteers.

IC ICM A61K031-195

ICS A61K009-00

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1

IT Intestine

(small; treatment of gastroparesis and nonulcer dyspepsia with gaba agonists)

IT Amyloidosis

Diabetes mellitus

Drug delivery systems

Gastric emptying

Gastrointestinal motility

6

Human

Hypothyroidism

Parkinson's disease

(treatment of gastroparesis and nonulcer dyspepsia with gaba agonists)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2005:216689 HCAPLUS DOCUMENT NUMBER: 142:285208 TITLE: Controlled-release formulations of aminosalicylates for treating inflammatory bowel disease Devane, John; Butler, Jackie INVENTOR(S): AGI Therapeutics Ltd., Ire. PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 96 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE \_ \_ \_ \_ -----WO 2005021009 A2 20050310 WO 2004-IB3059 200409 02 WO 2005021009 20050714 **A**3 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2005090473 20050428 US 2004-930743 A1 200409 01 PRIORITY APPLN. INFO.: US 2003-499365P Р 200309 03

AB Methods and formulations for treating inflammatory bowel disease are disclosed. The methods and formulations include, but are not limited to, methods and formulations for delivering effective concns. of 4-aminosalicylic acid and/or 5-aminosalicylic acid to affected areas of the intestine. The methods and formulations comprise modified-release elements, providing for drug

IC

CC

IT

IT

IT

IT

IT

Intestine, disease

delivery to the affected or desired area. Diseases and conditions treatable with the present invention include Crohn's disease and ulcerative colitis. Thus a matrix tablet contained (mg/tab): 4-aminosalicylate sodium 571.76; lactose 78.12; Avicel PH101 78.12; Methocel Premium CR 200.00; silica 2.00; stearic acid 20.0; PVP 50.0. The pH-dependent coating included (wt./wt.%): Eudragit L100 6.39; Acetyl tri-Bu citrate 1.60; water 3.26; ethanol 88.75. ICM A61K031-655 ICS A61K031-606; A61P001-06; C07C245-08; A61K009-20; A61K009-28; A61K009-50 63-6 (Pharmaceuticals) Section cross-reference(s): 1 aminosalicylate controlled release coated tablet inflammatory bowel disease Inflammation (Crohn's disease; controlled-release formulations of aminosalicylates for treating inflammatory bowel disease) Intestine, disease (Crohn's; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease) Polymers, biological studies (cellulosic, controlled-release, Methocel Premium CR; controlled-release formulations of aminosalicylates for treating inflammatory bowel disease) Absorbents Buffers Coating materials Coating process Dissolution Dyes Fillers Humectants Lubricants Pharmacokinetics Plasticizers Preservatives Urine analysis Wetting agents (controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease) Drug delivery systems (controlled-release, modified-, delayed-, and extended-release; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

(inflammatory; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT Acids, biological studies

(org.; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT Membranes, nonbiological

(semipermeable, in drug formulation; controlled-release formulations of aminosalicylates for treating inflammatory bowel disease)

IT Drug delivery systems

(sustained-release; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT Drug delivery systems

(tablet disintegrant; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT Drug delivery systems

(tablets, coated; controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT Inflammation

Intestine, disease

(ulcerative colitis; controlled-release formulations of aminosalicylates for treating inflammatory bowel disease)

IT 242126-56-3

(controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT 95710-87-5

(controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT 7640-38-2

(controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

TT 57-11-4, Stearic acid, biological studies 63-42-3, Lactose 77-90-7, Acetyl tributyl citrate 109-43-3 557-04-0, Magnesium stearate 7631-86-9, Silica, biological studies 9003-39-8, PVP 9004-34-6, Avicel PH101, biological studies 9004-57-3, Ethocel 9063-38-1, Sodium starch glycolate 14807-96-6, Talc, biological studies 25086-15-1, Eudragit L100 25086-48-0 33434-24-1, Eudragit RS 12.5

(controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT 65-49-6, 4-Aminosalicylic acid

(controlled-release formulations of aminosalicylates for treating inflammatory **bowel** disease)

IT 89-57-6, 5-Aminosalicylic acid 89-57-6D, salts and esters 15722-48-2, 5,5'-Azo-bis salicylic acid 15722-48-2D, 5,5'-Azo-bis salicylic acid, salts of 95710-82-0 95710-82-0D, salts of (controlled-release formulations of aminosalicylates for treating inflammatory bowel disease)

IT 7647-01-0, Hydrogen chloride, biological studies
 (testing medium; controlled-release formulations of
 aminosalicylates for treating inflammatory bowel
 disease)

L21 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:780526 HCAPLUS

DOCUMENT NUMBER:

141:289059

TITLE:

Treatment of intestinal conditions

with N-2,3,3-tetramethylbicyclo[2.2.1]heptan-2-

amine

INVENTOR(S):

Devane, John

PATENT ASSIGNEE(S):

Athpharma Limited, Ire. PCT Int. Appl., 83 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIN	D	DATE			APPL	D.	ATE	Ξ				
													•				
WO 2004080446				A1		20040923		1	WO 2	200403							
											12						
WO 2004080446				В1		2004	1209										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	
		GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	
		KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	
		MX,	MZ,	NA,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	
	-	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	
	VC, VN,		ΥU,	ZA,	ZM,	zw											
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	
		DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	ΝL,	PL,	PT,	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	
		ML,	MR,	NΕ,	SN,	TD,	TG							•			
CA	2518	385			AA	A 20040923			CA 2004-2518385								
														00403			
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US 2004209961					<b>A</b> 1		2004:	1021	US 2004-798421								

200403

12

EP 1603544

A1 20051214

EP 2004-720110

200403

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,

PL, SK

PRIORITY APPLN. INFO.:

US 2003-454527P

200303

14

Ρ

WO 2004-IB1134

200403

12

AB The invention discloses methods and formulations for reducing, preventing, and/or managing abnormal increases in gastrointestinal motility, and intestinal conditions that cause the same. Methods of using N-2,3,3-tetramethylbicyclo-[2.2.1]heptane-2-amine and formulations comprising N-2,3,3-tetramethylbicyclo-[2.2.1]heptan-2-amine are included.

IT 60-40-2

(tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

RN 60-40-2 HCAPLUS

CN Bicyclo[2.2.1]heptan-2-amine, N,2,3,3-tetramethyl- (9CI) (CA INDEX NAME)

IT 107538-05-6 107538-06-7 760175-93-7 760175-94-8 760175-95-9 760175-96-0 760175-97-1 760175-98-2 760175-99-3 760176-00-9 760176-01-0 760176-02-1 760176-03-2 760176-04-3 760176-05-4 760176-09-8 760176-10-1 760176-11-2 760176-12-3 760176-13-4 760176-14-5

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760176-15-6 760176-16-7 760176-17-8
     760176-18-9 760176-19-0 760176-20-3
     760176-21-4 760176-22-5 760176-23-6
     760176-24-7 760176-25-8 760176-27-0
     760176-28-1 760176-29-2 760176-30-5
     760176-31-6 760176-32-7 760176-33-8
     760176-34-9 760176-35-0 760176-36-1
     760176-37-2 760176-38-3 760176-39-4
     760176-40-7 760176-41-8 760176-42-9
     760176-43-0 760176-44-1 760176-45-2
        (tetramethylbicycloheptanamine for modulating
        gastrointestinal motility and treating intestinal
        conditions, and combinations with other agents)
RN
     107538-05-6 HCAPLUS
     Bicyclo[2.2.1] heptan-2-amine, N,2,3,3-tetramethyl-, (1R,2S,4S)-
CN
     (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RN 107538-06-7 HCAPLUS CN Bicyclo[2.2.1]heptan-2-amine, N,2,3,3-tetramethyl-, (1S,2R,4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 760175-93-7 HCAPLUS
CN 1,6-Hexanediaminium, N,N,N,N',N',N'-hexamethyl-, mixt. with
N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 60-26-4 CMF C12 H30 N2

 $Me_3+N-(CH_2)_6-N+Me_3$ 

RN 760175-94-8 HCAPLUS

CN Thieno[1',2':1,2]thieno[3,4-d]imidazol-5-ium, decahydro-2-oxo-1,3-bis(phenylmethyl)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]hept an-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 7187-66-8 CMF C22 H25 N2 O S

Currently available stereo shown.

CM 2

CRN 60-40-2

CMF C11 H21 N

RN 760175-95-9 HCAPLUS

CN 1H-Isoindolium, 4,5,6,7-tetrachloro-2,3-dihydro-2-methyl-2-[2-(trimethylammonio)ethyl]-, dichloride, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 69-27-2 CMF C14 H20 Cl4 N2 . 2 Cl

$$C1$$
 $N$ 
 $CH_2-CH_2-N+Me_3$ 
 $C1$ 
 $C1$ 
 $C1$ 
 $N$ 
 $CH_2-CH_2-N+Me_3$ 

●2 Cl-

CM 2

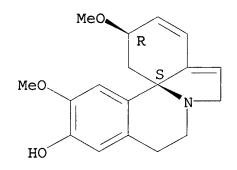
RN 760175-96-0 HCAPLUS

CN Erythrinan-16-ol, 1,2,6,7-tetradehydro-3,15-dimethoxy-, (3.beta.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 7290-03-1 CMF C18 H21 N O3

Absolute stereochemistry.



CM 2

CRN 60-40-2 CMF C11 H21 N

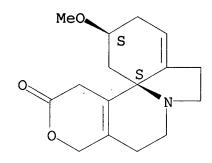
RN 760175-97-1 HCAPLUS

CN 1H,12H-Benzo[i]pyrano[3,4-g]indolizin-12-one, 2,3,5,6,8,9,10,13-octahydro-2-methoxy-, (2S,13bS)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 23255-54-1 CMF C16 H21 N O3

Absolute stereochemistry.



CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760175-98-2 HCAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-amine, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 768-94-5 CMF C10 H17 N

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760175-99-3 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, methyl 2-[methyl(phenylmethyl)amino]ethyl ester, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 55985-32-5 CMF C26 H29 N3 O6

Me 
$$C-OMe$$
 $C-O-CH_2-CH_2-N-CH_2-Ph$ 
 $C-O-CH_2-CH_2-N-CH_2-Ph$ 
 $C-O-CH_2-CH_2-N-CH_2-Ph$ 

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-00-9 HCAPLUS

CN Ethanaminium, 2,2'-[(1,4-dioxo-1,4-butanediyl)bis(oxy)]bis[N,N,N-trimethyl-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 306-40-1 CMF C14 H30 N2 O4

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-01-0 HCAPLUS

CN 1,10-Decanediaminium, N,N,N,N',N',N'-hexamethyl-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX

NAME)

CM 1

CRN 156-74-1 CMF C16 H38 N2

 $Me_3+N-(CH_2)_{10}-N+Me_3$ 

CM 2

CRN 60-40-2 CMF C11 H21 N

NHMe Me Me

RN 760176-02-1 HCAPLUS

CN 13H-4,6:21,24-Dietheno-8,12-metheno-1H-pyrido[3',2':14,15][1,11]diox acycloeicosino[2,3,4-ij]isoquinolinium, 2,3,13a,14,15,16,25,25a-octahydro-9,19-dihydroxy-18,29-dimethoxy-1,14,14-trimethyl-, (13aR,25aS)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

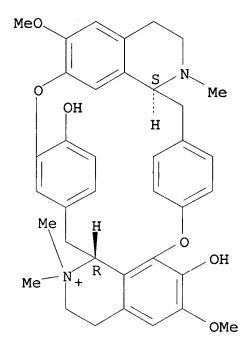
CRN 60-40-2 CMF C11 H21 N

NHMe Me Me CM 2

CRN 57-95-4

CMF C37 H41 N2 O6

Absolute stereochemistry.



.760176-03-2 HCAPLUS RN

Isoquinolinium, 2,2'-[1,5-pentanediylbis[oxy(3-oxo-3,1-CN . propanediyl)]]bis[1-[(3,4-dimethoxyphenyl)methyl]-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-, mixt. with N,2,3,3tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 64228-79-1

CMF C53 H72 N2 O12

# PAGE 1-A

### PAGE 1-B

CM 2

RN 760176-04-3 HCAPLUS

CN Isoquinolinium, 2,2'-[(1,4-dioxo-1,4-butanediyl)bis(oxy-3,1-propanediyl)]bis[1,2,3,4-tetrahydro-6,7,8-trimethoxy-2-methyl-1-[(3,4,5-trimethoxyphenyl)methyl]-, (1R,1'R,2S,2'S)-rel-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 133814-18-3 CMF C56 H78 N2 O16

Currently available stereo shown.

PAGE 1-A OMe

PAGE 1-B

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-05-4 HCAPLUS

CN Isoquinolinium, 2,2'-[[(4E)-1,8-dioxo-4-octene-1,8-diyl]bis(oxy-3,1-propanediyl)]bis[1,2,3,4-tetrahydro-6,7-dimethoxy-2-methyl-1-[(3,4,5-trimethoxyphenyl)methyl]-, (1R,1'R)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 133814-19-4 CMF C58 H80 N2 O14

Absolute stereochemistry.

Double bond geometry as shown.

# PAGE 1-A

MeO\_

### PAGE 1-B

CM 2

RN 760176-06-5 HCAPLUS

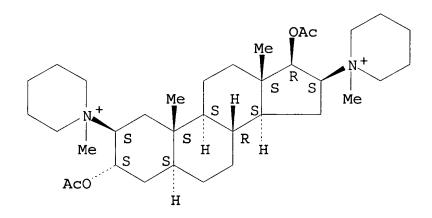
CN Piperidinium, 1,1'-[(2.beta.,3.alpha.,5.alpha.,16.beta.,17.beta.)-3,17-bis(acetyloxy)androstane-2,16-diyl]bis[1-methyl-, dibromide, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 15500-66-0

CMF C35 H60 N2 O4 . 2 Br

Absolute stereochemistry.



●2 Br-

CM 2

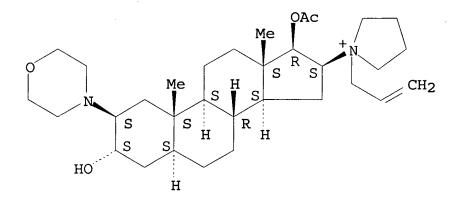
RN 760176-07-6 HCAPLUS

CN Pyrrolidinium, 1-[(2.beta.,3.alpha.,5.alpha.,16.beta.,17.beta.)-17-(acetyloxy)-3-hydroxy-2-(4-morpholinyl)androstan-16-yl]-1-(2-propenyl)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 143558-00-3 CMF C32 H53 N2 O4

Absolute stereochemistry.



CM 2

RN 760176-08-7 HCAPLUS

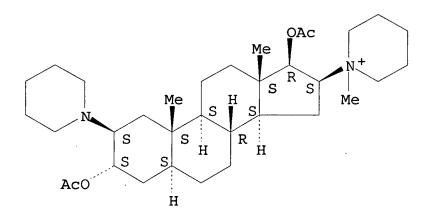
CN Piperidinium, 1-[(2.beta.,3.alpha.,5.alpha.,16.beta.,17.beta.)-3,17-bis(acetyloxy)-2-(1-piperidinyl)androstan-16-yl]-1-methyl-, bromide, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 50700-72-6

CMF C34 H57 N2 O4 . Br

Absolute stereochemistry.



• Br-

CM 2

RN 760176-09-8 HCAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, bromide, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 596-51-0 CMF C19 H28 N O3 . Br

● Br~

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-10-1 HCAPLUS

CN Benzeneacetic acid, .alpha.-(hydroxymethyl)- (3-endo)-8-methyl-8-

azabicyclo[3.2.1]oct-3-yl ester, mixt. with N,2,3,3tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

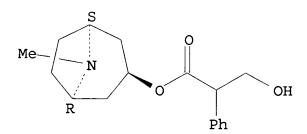
CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 51-55-8 CMF C17 H23 N O3

Relative stereochemistry.



RN 760176-11-2 HCAPLUS

CN Benzeneacetic acid, .alpha.-(hydroxymethyl)-, (3-endo)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, (.alpha.S)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 101-31-5 CMF C17 H23 N O3

Absolute stereochemistry. Rotation (-).

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-12-3 HCAPLUS

CN Benzeneacetic acid, .alpha.-(hydroxymethyl)-,
 (1.alpha.,2.beta.,4.beta.,5.alpha.,7.beta.)-9-methyl-3-oxa-9 azatricyclo[3.3.1.02,4]non-7-yl ester, (.alpha.S)-, mixt. with
 N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 51-34-3 CMF C17 H21 N O4

Absolute stereochemistry. Rotation (-).

RN 760176-13-4 HCAPLUS

CN 1-Piperidinebutanamide, 4-(4-chlorophenyl)-4-hydroxy-N,N-dimethyl-.alpha.,.alpha.-diphenyl-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 53179-11-6 CMF C29 H33 Cl N2 O2

CM 2

CRN 60-40-2

CMF C11 H21 N

RN 760176-14-5 HCAPLUS

CN 4-Piperidinecarboxylic acid, 1-(3-cyano-3,3-diphenylpropyl)-4-phenyl-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 28782-42-5 CMF C28 H28 N2 O2

$$\begin{array}{c} \begin{array}{c} \text{Ph} \\ | \\ | \\ \text{CH}_2-\text{CH}_2-\text{C-CN} \\ | \\ | \\ \text{Ph} \end{array}$$

CM 2

RN 760176-15-6 HCAPLUS

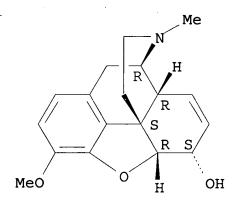
CN Morphinan-6-ol, 7,8-didehydro-4,5-epoxy-3-methoxy-17-methyl-, (5.alpha.,6.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 76-57-3

CMF C18 H21 N O3

Absolute stereochemistry.



CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-16-7 HCAPLUS

CN Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl-(5.alpha.,6.alpha.)-, mixt. with N,2,3,3tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

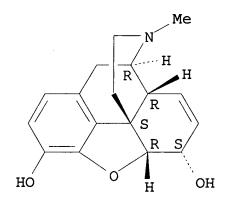
CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 57-27-2 CMF C17 H19 N O3

Absolute stereochemistry. Rotation (-).



RN 760176-17-8 HCAPLUS

CN Morphinan-6-one, 4,5-epoxy-3,14-dihydroxy-17-methyl-, (5.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 76-41-5 CMF C17 H19 N O4

Absolute stereochemistry.

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-18-9 HCAPLUS

CN Morphinan-6-one, 4,5-epoxy-14-hydroxy-3-methoxy-17-methyl-, hydrochloride, (5.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 124-90-3 CMF C18 H21 N O4 . Cl H

Absolute stereochemistry.

● HCl

CM 2

CRN 60-40-2 CMF C11 H21 N

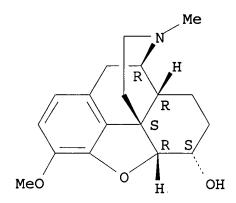
RN 760176-19-0 HCAPLUS

CN Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5.alpha.,6.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 125-28-0 CMF C18 H23 N O3

Absolute stereochemistry.



CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-20-3 HCAPLUS

CN Propanamide, N-phenyl-N-[1-(2-phenylethyl)-4-piperidinyl]-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 437-38-7 CMF C22 H28 N2 O

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-21-4 HCAPLUS

CN 1H-Pyrido[4,3-b]indol-1-one, 2,3,4,5-tetrahydro-5-methyl-2-[(5-methyl-1H-imidazol-4-yl)methyl]-, monohydrochloride, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 122852-69-1 CMF C17 H18 N4 O . Cl H

HCl

CM 2

CRN 60-40-2 CMF C11 H21 N

CN

RN 760176-22-5 HCAPLUS

Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 52-53-9

CMF C27 H38 N2 O4

MeO Pr-i Me OMe 
$$C-(CH_2)_3-N-CH_2-CH_2$$

RN 760176-23-6 HCAPLUS

CN Pyrazinecarboxamide, 3,5-diamino-N-(aminoiminomethyl)-6-chloro-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 2609-46-3 CMF C6 H8 Cl N7 O

$$\begin{array}{c|c} & \text{C1} \\ \text{H}_2\text{N} & \\ & \text{N} \\ & \text{N} \\ & \text{NH}_2 & \text{O} & \text{NH} \\ \end{array}$$

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-24-7 HCAPLUS

CN Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-[(2-furanylmethyl)amino]-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 54-31-9 CMF C12 H11 C1 N2 O5 S

$$CO_2H$$
 $CH_2-NH$ 
 $Cl$ 
 $S-NH_2$ 

RN 760176-25-8 HCAPLUS

CN Bicyclo[2.2.1]heptan-2-amine, N,2,3,3-tetramethyl-, mixt. with bismuth (9CI) (CA INDEX NAME)

CM 1

CRN 7440-69-9

CMF Bi

Βi

CM 2

CRN 60-40-2 CMF C11 H21 N

NHMe Me Me Me

RN 760176-27-0 HCAPLUS

CN L-Cysteinamide, D-phenylalanyl-L-cysteinyl-L-phenylalanyl-D-tryptophyl-L-lysyl-L-threonyl-N-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)propyl]-, cyclic (2.fwdarw.7)-disulfide, monoacetate (salt), mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CRN 760176-26-9

CMF C49 H66 N10 O10 S2 . C2 H4 O2

CM 3

CRN 83150-76-9

CMF C49 H66 N10 O10 S2

CM 4

CRN 64-19-7 CMF C2 H4 O2

#### RN 760176-28-1 HCAPLUS

CN Benzoic acid, 2-hydroxy-5-[[4-[(2-pyridinylamino)sulfonyl]phenyl]azo ]-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 599-79-1 CMF C18 H14 N4 O5 S

CM 2

CRN 60-40-2 CMF C11 H21 N

### RN 760176-29-2 HCAPLUS

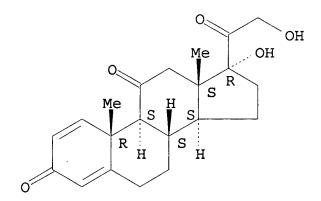
CN Pregna-1,4-diene-3,11,20-trione, 17,21-dihydroxy-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CRN 53-03-2 CMF C21 H26 O5

Absolute stereochemistry.



RN 760176-30-5 HCAPLUS

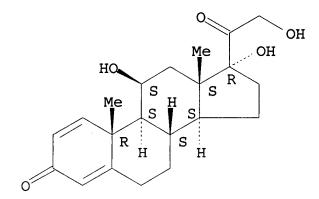
CN Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11.beta.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CRN 50-24-8 CMF C21 H28 O5

## Absolute stereochemistry.



RN 760176-31-6 HCAPLUS

CN Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11.beta.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 50-23-7 CMF C21 H30 O5

Absolute stereochemistry.

RN 760176-32-7 HCAPLUS

CN Pregn-4-ene-3,11,20-trione, 17,21-dihydroxy-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 53-06-5 CMF C21 H28 O5

Absolute stereochemistry.

RN 760176-33-8 HCAPLUS

CN Androsta-1,4-diene-17-carbothioic acid, 6,9-difluoro-11,17-dihydroxy-16-methyl-3-oxo-, S-(fluoromethyl) ester, (6.alpha.,11.beta.,16.alpha.,17.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 90566-53-3 CMF C22 H27 F3 O4 S

Absolute stereochemistry.

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-34-9 HCAPLUS

CN Pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11.beta.,16.alpha.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 50-02-2 CMF C22 H29 F O5

Absolute stereochemistry.

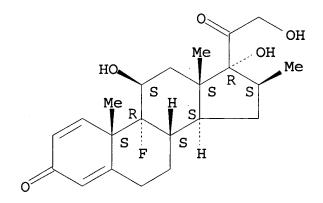
RN 760176-35-0 HCAPLUS

CN Pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11.beta.,16.beta.)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 378-44-9 CMF C22 H29 F O5

Absolute stereochemistry.



CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-36-1 HCAPLUS

CN Benzoic acid, 5-amino-2-hydroxy-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 89-57-6 CMF C7 H7 N O3

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-37-2 HCAPLUS

CN 1H-Imidazole-1-ethanol, 2-methyl-5-nitro-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CRN 443-48-1 CMF C6 H9 N3 O3

$$\begin{array}{c} \text{N} & \text{Me} \\ \\ \text{O}_2 \text{N} & \text{CH}_2 - \text{CH}_2 - \text{OH} \end{array}$$

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-38-3 HCAPLUS

CN 3-Quinolinecarboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]hept an-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 85721-33-1 CMF C17 H18 F N3 O3

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

CRN 60-40-2 CMF C11 H21 N

RN 760176-39-4 HCAPLUS

CN Bicyclo[2.2.1]heptan-2-amine, N,2,3,3-tetramethyl-, mixt. with 6-[(1-methyl-4-nitro-1H-imidazol-5-yl)thio]-1H-purine (9CI) (CA INDEX NAME)

CM 1

CRN 446-86-6 CMF C9 H7 N7 O2 S

CRN 60-40-2 CMF C11 H21 N

RN 760176-40-7 HCAPLUS

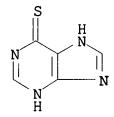
CN 6H-Purine-6-thione, 1,7-dihydro-, mixt. with N,2,3,3tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 50-44-2 CMF C5 H4 N4 S



RN 760176-41-8 HCAPLUS

CN Cyclosporin A, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

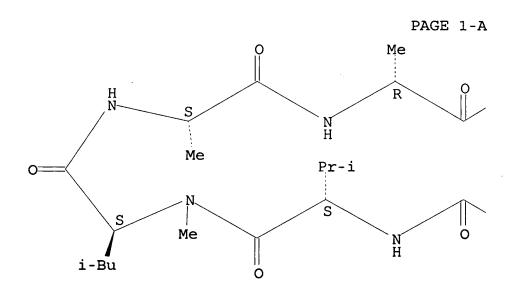
CM 1

CRN 59865-13-3

CMF C62 H111 N11 O12

Absolute stereochemistry.

Double bond geometry as shown.



# PAGE 1-C

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-42-9 HCAPLUS

CN L-Glutamic acid, N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino ]benzoyl]-, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 59-05-2 CMF C20 H22 N8 O5

Absolute stereochemistry.

$$NH_2$$
 $NH_2$ 
 $NH_2$ 

RN 760176-43-0 HCAPLUS

CN Immunoglobulin G, anti-(human tumor necrosis factor), disulfide with human-mouse monoclonal cA2 light chain, dimer, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 170277-31-3 CMF Unspecified

CCI MAN

### \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-44-1 HCAPLUS

CN Heparin, mixt. with N,2,3,3-tetramethylbicyclo[2.2.1]heptan-2-amine (9CI) (CA INDEX NAME)

CM 1

CRN 9005-49-6 CMF Unspecified CCI PMS, MAN

### \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 60-40-2 CMF C11 H21 N

RN 760176-45-2 HCAPLUS

CN Bicyclo[2.2.1]heptan-2-amine, N,2,3,3-tetramethyl-, mixt. with 3-[(2S)-1-methyl-2-pyrrolidinyl]pyridine (9CI) (CA INDEX NAME)

CM 1

CRN 60-40-2 CMF C11 H21 N

CM 2

CRN 54-11-5 CMF C10 H14 N2

Absolute stereochemistry. Rotation (-).

IC ICM A61K031-135

ICS A61P001-12

CC 1-9 (Pharmacology)
 Section cross-reference(s): 63

ST tetramethylbicycloheptanamine gastrointestinal motility

## intestinal condition

IT Inflammation

(Crohn's disease, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(Crohn's, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Antihistamines

(H2; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Gastrointestinal motility

(agents altering; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(buccal; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Inflammation

Intestine, disease

(colitis, spastic, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(colon, neurogenic colon,
gastrointestinal motility increase from;
tetramethylbicycloheptanamine for modulating
gastrointestinal motility and treating intestinal
conditions, and combinations with other agents)

IT Drug delivery systems

(delayed release; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Biological transport

(digestive tract fluid transport, agents altering; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Gastrointestinal motility

(disorder, dysmotility; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating

intestinal conditions, and combinations with other
agents)

IT Inflammation

Intestine, disease

(diverticulitis, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Inflammation

Intestine, disease

(enterocolitis, acute, gastrointestinal
motility increase from; tetramethylbicycloheptanamine for
modulating gastrointestinal motility and treating
intestinal conditions, and combinations with other
agents)

IT Drug delivery systems

(extended-release; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Fats and Glyceridic oils, biological studies
(fish; tetramethylbicycloheptanamine for modulating
gastrointestinal motility and treating intestinal
conditions, and combinations with other agents)

IT Digestive tract

(fluid transport, agents altering; tetramethylbicycloheptanamine for modulating **gastrointestinal** motility and treating **intestinal** conditions, and combinations with other agents)

IT Bladder

(function; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(functional bowel disorder, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Nervous system agents

(ganglionic blocking agents; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(immediate-release; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(inflammatory, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(irritable bowel syndrome, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine

(large, infection, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Dysentery

(mild, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(modified-release; tetramethylbicycloheptanamine for modulating

gastrointestinal motility and treating intestinal

conditions, and combinations with other agents)

IT Drug delivery systems

(multiparticulate; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(nasal; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(neurogenic, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(oral; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Transport proteins

(proton pump, inhibitors; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Stomach

(pylorus, pyloric spasm, gastrointestinal

motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Intestine, disease

(small, infection, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Muscle, disease

(spasm, abdominal, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Muscle relaxants

(spasmolytics; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Digestive tract, disease

(splenic flexure syndrome, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(sublingual; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT Drug delivery systems

(tablets, modified-release; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents)

IT 5-HT agonists

5-HT antagonists

Antacids

Anti-infective agents

Anti-inflammatory agents

Antidiarrheals

Blood pressure

Calcium channel blockers

Combination chemotherapy

Diarrhea

Diuretics

Drug delivery systems

Drug toxicity

Gastrointestinal agents

Heart rate

7290-03-1,

Human Immunomodulators Muscarinic antagonists Nicotinic antagonists Vision (tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) Corticosteroids, biological studies IT Estrogens Mineralocorticoids Opioids Steroids, biological studies (tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) IT Drug delivery systems (transdermal; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) IT Inflammation Intestine, disease (ulcerative colitis, gastrointestinal motility increase from; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) IT Adrenoceptor antagonists (.beta.-; tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) IT 60-40-2 (tetramethylbicycloheptanamine for modulating gastrointestinal motility and treating intestinal conditions, and combinations with other agents) IT 50-02-2, Dexamethasone 50-23-7, Cortisol 50-24-8, Prednisolone 50-44-2, 6-Mercaptopurine 51-34-3, Scopolamine 51-55-8, Atropine, biological studies 52-53-9, Verapamil 53-03-2. 53-06-5, Cortisone 54-11-5, Nicotine Prednisone 54-31-9, Furosemide 57-27-2, Morphine, biological studies 57-94-3, 59-05-2, Methotrexate 60-26-4, Hexamethonium Tubocurarine 69-27-2 76-41-5, Oxymorphone 76-57-3, Codeine 5-Aminosalicylic acid 101-31-5, Hyoscyamine 124-90-3, Oxycontin 156-74-1, Decamethonium 125-28-0, Dihydrocodeine 306-40-1, 378-44-9, Betamethasone Succinylcholine 437-38-7, Fentanyl 443-48-1, Metronidazole 446-86-6, Azathioprine 596-51-0, 599-79-1, Sulfasalazine Glycopyrrolate 768-94-5, Amantadine

2609-46-3, Amiloride 7187-66-8, Trimethaphan

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Erysodine
               7440-69-9, Bismuth, biological studies
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     Heparin, biological studies 15500-66-0, Pancuronium
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                            50700-72-6, Vecuronium
     28782-42-5, Difenoxine
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                 55985-32-5, Perpidine 59865-13-3, Cyclosporine
     Loperamide
     64228-79-1, Atracurium 79517-01-4, Sandostatin
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                     90566-53-3, Fluticasone 107538-05-6
     Ciprofloxacin
     107538-06-7
                   122852-69-1, Alosetron hydrochloride
     133814-18-3, Doxacurium 133814-19-4, Mivacurium
                                                         143558-00-3,
                  170277-31-3, Remicade 760175-93-7
     Rocuronium
     760175-94-8 760175-95-9 760175-96-0
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     760176-00-9 760176-01-0 760176-02-1
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     760176-06-5 760176-07-6 760176-08-7
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     760176-24-7 760176-25-8 760176-27-0
     760176-28-1 760176-29-2 760176-30-5
     760176-31-6 760176-32-7 760176-33-8
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     760176-37-2 760176-38-3 760176-39-4
     760176-40-7 760176-41-8 760176-42-9
     760176-43-0 760176-44-1 760176-45-2
        (tetramethylbicycloheptanamine for modulating
        gastrointestinal motility and treating intestinal
        conditions, and combinations with other agents)
                               THERE ARE 5 CITED REFERENCES AVAILABLE FOR
REFERENCE COUNT:
                         5
                               THIS RECORD. ALL CITATIONS AVAILABLE IN
                               THE RE FORMAT
L21 ANSWER 5 OF 16
                    HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2004:269870 HCAPLUS
DOCUMENT NUMBER:
                         140:247075
                        Treatment of abnormal increases in
TITLE:
                         gastrointestinal motility with
                         (R)-verapamil
                        Kelly, John; Devane, John
INVENTOR(S):
                        AGI Therapeutics, Ltd., Ire.
PATENT ASSIGNEE(S):
SOURCE:
                        U.S. Pat. Appl. Publ., 20 pp., Cont.-in-part of
                        U.S. Pat. Appl. 2003 92,765.
                         CODEN: USXXCO
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004063784	<b>A</b> 1	20040401	US 2002-294692		200211 15
US 6849661 US 2003092765	B2 A1	20050201 20030515	US 2002-256261		200209
PRIORITY APPLN. INFO.:			US 2002-256261	B2	200209
			US 2001-335959P	P	200111 15

The invention discloses methods for treating, preventing, and/or managing abnormal increases in **gastrointestinal** motility, and **intestinal** conditions that cause the same. Such conditions include, but are not limited to, irritable **bowel** syndrome, infectious diseases of the small and large **intestines**, and symptoms of any of the foregoing. In particular, the invention discloses methods of using enriched (R)-verapamil, as well as compns. and formulations contg. the same.

IC ICM A61K031-275

INCL 514526000

CC 1-9 (Pharmacology)

Section cross-reference(s): 63

ST verapamil isomer gastrointestinal motility; irritable bowel syndrome gastrointestinal motility verapamil isomer; infection intestine gastrointestinal motility verapamil isomer

IT Artery

(aorta; treatment of abnormal increases in
gastrointestinal motility with (R)-verapamil)

IT Drug delivery systems

(beads; treatment of abnormal increases in gastrointestinal motility with (R)-verapamil)

IT Drug delivery systems

(buccal; treatment of abnormal increases in gastrointestinal motility with (R)-verapamil)

IT Drug delivery systems

(caplets; treatment of abnormal increases in gastrointestinal motility with (R)-verapamil)

IT Drug delivery systems

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(capsules; treatment of abnormal increases in
        gastrointestinal motility with (R) -verapamil)
IT
     Intestine
        (colon; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (controlled-release; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (granules; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Intestine, disease
IT
        (infection; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Infection
IT
        (intestinal; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Intestine, disease
IT
        (irritable bowel syndrome; treatment of abnormal
        increases in gastrointestinal motility with
        (R)-verapamil)
     Drug delivery systems
IT
        (matrix system; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Drug delivery systems
IT
        (membrane-controlled; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (modified-release; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (nasal; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
ΙT
     Drug delivery systems
        (oral; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (osmotic pumps; treatment of abnormal increases in
        gastrointestinal motility with (R) -verapamil)
IT
     Drug delivery systems
        (parenterals; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (particles; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (rectal; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
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IT
     Drug delivery systems
        (sachets; treatment of abnormal increases in
        gastrointestinal motility with (R) -verapamil)
IT
     Drug delivery systems
        (solids; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Drug delivery systems
IT
        (sublingual; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (suppositories; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (suspensions; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     Drug delivery systems
IT
        (tablets; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Drug delivery systems
        (topical; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
    Drug delivery systems
       Gastrointestinal agents
       Gastrointestinal motility
     Vas deferens
        (treatment of abnormal increases in gastrointestinal
        motility with (R)-verapamil)
IT
     Carbohydrates, biological studies
     Polyesters, biological studies
     Polyoxyalkylenes, biological studies
     Polyurethanes, biological studies
        (treatment of abnormal increases in gastrointestinal
        motility with (R)-verapamil)
IT
    Drug delivery systems
        (vaginal; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
IT
     Polymers, biological studies
        (water-sol. and water-insol.; treatment of abnormal increases in
        gastrointestinal motility with (R)-verapamil)
     21829-25-4, Nifedipine 36622-29-4, (S)-Verapamil
IT
        (treatment of abnormal increases in gastrointestinal
        motility with (R)-verapamil)
IT
     38321-02-7
        (treatment of abnormal increases in gastrointestinal
        motility with (R)-verapamil)
IT
     9002-86-2, Poly (vinyl chloride 9002-88-4, Poly (ethylene
     9002-89-5, Polyvinyl alcohol 9003-20-7, Poly (vinyl acetate
     9003-21-8, Poly (methyl acrylate 9003-39-8, Polyvinylpyrrolidone
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9003-42-3, Poly (ethyl methacrylate) 9003-44-5, Poly (vinyl isobutyl ether 9003-63-8, Poly (butyl methacrylate) 9004-34-6, Cellulose, biological studies 9004-35-7, Cellulose acetate 9004-36-8, Cellulose acetate butyrate 9004-38-0, Cellulose acetate phthalate 9004-39-1, Cellulose acetate propionate 9004-48-2, Cellulose propionate 9004-57-3, Ethylcellulose 9004-64-2, Hydroxypropylcellulose 9004-65-3, Hydroxypropylmethylcellulose 9004-67-5, Methylcellulose 9005-25-8, Starch, biological studies 9011-14-7, Poly (methyl methacrylate) 9011-15-8, Poly (isobutyl methacrylate) 9012-09-3, Cellulose triacetate 25038-59-9, Poly (ethylene terephthalate, biological studies 25087-17-6, Poly (hexyl methacrylate) 25189-01-9, Poly (phenyl methacrylate 25322-68-3, Polyethylene glycol 25719-52-2, Poly (lauryl methacrylate) 25986-77-0, Poly (octadecyl acrylate 26124-32-3, Poly (isopropyl acrylate) 26335-74-0, Poly (isobutyl acrylate 33434-24-1, Eudragit RS 30D 37200-12-7, Poly (isodecyl methacrylate 79484-92-7, Methocel

(treatment of abnormal increases in gastrointestinal motility with (R)-verapamil)

REFERENCE COUNT:

THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:220142 HCAPLUS

DOCUMENT NUMBER:

140:259107

TITLE:

Pharmaceuticals formulations for modified

release of statin drugs

INVENTOR(S):

Butler, Jackie; Devane, John; Stark,

Paul

PATENT ASSIGNEE(S):

Biovail Laboratories, Inc., Barbados

SOURCE:

PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE						
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WO 2004021972	A2	20040318	WO 2003-IB4361							
				200309						
				03						
WO 2004021972	A3	20040812								
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GE, G	H, GM, HR, HU	, ID, IL, IN,	IS, JP, KE, KG,	KP, KR, KZ,						

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LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
             NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ,
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     CA 2497832
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                                20040318
                                             CA 2003-2497832
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     US 2004132802
                          A1
                                20040708
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     EP 1545503
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                                                                    200309
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             SK
     JP 2006503023
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     NO 2005000840
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                                            NO 2005-840
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PRIORITY APPLN. INFO.:
                                             US 2002-407270P
                                                                    200209
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AB The present invention is directed to compns. and methods of their use in treating, preventing, and/or managing one or more cardiovascular diseases using at least one poorly water-sol. statin, such as, for example, simvastatin and/or lovastatin. One method of the invention involves delaying release of the poorly water-sol. statin for a time sufficient to avoid metab. of the statin at or near the gastrointestinal tract wall by the cytochrome P 450 3A metabolic system, and releasing said statin in the ileum, colon, or both, with subsequent uptake into the hepatic portal vein and distribution to hepatocytes, wherein HMG-CoA reductase activity may be inhibited with minimal adverse drug interactions. An extended release matrix of simvastatin was prepd. contg Methocel K100LV as the controlled release polymer. IC ICM A61K

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1

L21 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:551361 HCAPLUS

DOCUMENT NUMBER:

139:106482

TITLE:

Pravastatin pharmaceutical formulations

INVENTOR(S):
Butler, Jackie; Devane, John; Stark,

Paul

PATENT ASSIGNEE(S):

Athpharma Limited, Ire. PCT Int. Appl., 83 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.				KIND DATE			APPLICATION NO.						DATE				
WO 2003057195									WO 2003-IB336								
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CA	2473	106			AA		2003	0717	(	CA 2	003-	2473	106				
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JP	2005	SK 1 5190!	52		Т2		2005	0630		JP	2003-	5575	53			00301
CA	24978	896			AA		2004	0318		CA	2003-	2497	896	٠	1	
WO	2004	021Q	72		<b>A</b> 2		2004	Λ21Ω		WО	2003-	TDAS	23		0	00309 <b>3</b>
WO	2004	0219	73		AZ		2004	0310		WO	2003-	1645	23	•	2	00309
WO	20040 W:			7\ T .	A3		2004		מכו	סמ	B, BG,	סס	עמ	D <i>7</i> 7		
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	15513				A2						2003-				0	3
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JP NO NO	R: 20065 20040	AT, PT, SK 50468	BE, IE, 86	CH,	A2 DE, LT, T2 A	DK, LV,	ES, FI, 2006	FR, RO, 0209	GB, MK,	EP GR CY JP NO	2003- , IT, , AL, 2004- 2004-	TR, TR, 5337:	LU, BG, 91		0 0 SE, EE, 2 0:	3 00309 3 MC, HU, 00309 3 00408
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JP NO NO US	R: 20069 20040 20050	AT, PT, SK 50468	BE, IE, 86	CH, SI,	A2 DE, LT, T2 A	DK, LV,	ES, FI, 2006	FR, RO, 0209	GB, MK,	EP GR CY JP NO NO	2003- , IT, , AL, 2004- 2005- 2005-	TR, TR, 53379 3333 20502	LU, BG, 91	CZ,	0: 2: 0: SE, EE, 0: 2: 1: 2: 2:	3 00309 3 MC, HU, 00309 3 00408 00502
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03

US 2002-407269P 200209 03 US 2003-339487 A1 200301 10 WO 2003-IB336 W 200301 10 WO 2003-IB4523 200309

AB The present invention relates to formulations comprising a therapeutically effective amt. of pravastatin, or a salt. The present formulations and methods are designed to release little or no pravastatin in the stomach but release a therapeutic amt. of pravastatin in the small intestine, thereby limiting systemic exposure of the body to pravastatin and maximizing hepatic-specific absorption of the drug. The formulations and methods are particularly useful for treating and/or preventing conditions that are benefited by decreasing levels of lipids and/or cholesterol in the body. Tablets contained pravastatin sodium 5.56, anhyd. lactose 58.74, Avisel PH200 15.0, Methocel E4M 20.0, colloidal SiO2 0.20, and Mg stearate 0.50%.

IC ICM A61K009-20

ICS A61K009-22; A61K031-22; A61P003-10; A61P009-00

63-6 (Pharmaceuticals) CC

Section cross-reference(s): 1

IT Intestine

(small; pravastatin pharmaceutical formulations)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:376402 HCAPLUS

DOCUMENT NUMBER:

138:348722

TITLE:

Treatment of abnormal increases in

gastrointestinal motility with

(R) -verapamil

INVENTOR(S):

Kelly, John; Devane, John

PATENT ASSIGNEE(S):

Ire.

SOURCE:

U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA:	PATENT NO.			KIND DATE				APPL	DATE								
US 2003092765				<b>A</b> 1		20030515			US 2002-256261						200209		
US	US 2004063784				A1 200			0040401			002-	<b>27</b> 200211					
	US 6849661 CA 2499290				B2 AA		2005 2004			CA 2	15						
WO	2004	0329	19		<b>A</b> 1		2004	0422	,	WO 2	002-:	IB51	40		15	00211	
		•						,							200211 15		
		CN, GE, LC, NO, TJ, ZW GH, BY, EE,	CO, GH, LK, NZ, TM, GM, KG, ES,	CR, GM, LR, OM, TN, KE, KZ, FI,	CU, HR, LS, PH, TR, LS, MD, FR,	CZ, HU, LT, PL, TT, MW, RU, GB,	DE, ID, LU, PT, TZ, MZ, TJ, GR,	DK, IL, LV, RO, UA, SD, TM, IE,	DM, IN, MA, RU, UG, SL, AT, IT,	DZ, IS, MD, SC, US, SZ, BE, LU,	EC, JP, MG, SD, UZ, TZ, BG, MC,	EE, KE, MK, SE, VC, UG, CH, NL,	ES, KG, MN, SG, VN,	FI, KP, MW, SI, YU, ZW, CZ, SE,	CA, GB, KR, MX, SK, ZA, AM, DE, SK,	CH, GD, KZ, MZ, SL, ZM, AZ, DK, TR,	
		BF, TG	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	
AU	2002	3511	18		A1		20040504 AU 2002-351118						18	.*	20 15	00211	
EP	1542	673			A1		2005	0622	1	EP 2	002-	7858:	31		20	00211	
JP	R: 2006	PT,	ΙE,			LV,		RO,	MK,	CY,		TR,	BG,		SE, EE,	MC, SK	
NO	2005	0020	26		A	;	2005	0426	]	NO 2	005-:	2026				0504	

PRIORITY APPLN. INFO.: US 2001-335959P P 200111 15 US 2002-256261 B2 200209 27 WO 2002-IB5140 W 200211 15 The present invention is directed to methods of treating, AB preventing, and/or managing abnormal increases in gastrointestinal motility, and intestinal conditions that cause the same. Such conditions include, but are not limited to, irritable bowel syndrome (IBS), infectious diseases of the small and large intestines, and symptoms of any of the foregoing. In particular, the present invention discloses methods of using (R)-verapamil, as well as compns. and formulations contq. the same. . : : IC ICM A61K031-277 INCL 514520000 CC 1-9 (Pharmacology) Section cross-reference(s): 63 verapamil stereoisomer abnormal gastrointestinal motility ST therapy IT Artery (aorta; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (beads; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (buccal; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (caplets; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (capsules; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Intestine (colon; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Granulation (granulating agents; treatment of abnormal increases in

gastrointestinal motility with verapamil)

IT Drug delivery systems (granules; treatment of abnormal increases in gastrointestinal motility with verapamil) Drug delivery systems IT (intravaginal; treatment of abnormal increases in gastrointestinal motility with verapamil) Intestine, disease IT (irritable bowel syndrome; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Intestine (large, infection; treatment of abnormal increases in gastrointestinal motility with verapamil) Drug delivery systems IT (nasal; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (oral; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (osmotic pumps; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (parenterals; treatment of abnormal increases in gastrointestinal motility with verapamil) Perfumes IT (perfuming agents; treatment of abnormal increases in gastrointestinal motility with verapamil) Drug delivery systems IT (rectal; treatment of abnormal increases in gastrointestinal motility with verapamil) Drug delivery systems IT (sachets; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Intestine, disease (small, infection; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (solids; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (sublingual; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (suppositories; treatment of abnormal increases in gastrointestinal motility with verapamil) IT Drug delivery systems (suspensions; treatment of abnormal increases in gastrointestinal motility with verapamil)

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TT
    Drug delivery systems
        (tablets, instant-release and modified-release; treatment of
        abnormal increases in gastrointestinal motility with
        verapamil)
IT
    Drug delivery systems
        (topical; treatment of abnormal increases in
        gastrointestinal motility with verapamil)
    Antioxidants
IT
    Binders
    Carriers
    Coating materials
    Coloring materials
    Crosslinking agents
    Emulsifying agents
    Flavoring materials
      Gastrointestinal motility
    Gelation agents
    Human
    Humectants
    Lubricants
    Muscle contraction
    Plasticizers
    Preservatives
    Release coatings
    Setting agents
    Stabilizing agents
    Surfactants
    Sweetening agents
    Thickening agents
    Vas deferens
    Vasodilation
    Wetting agents
        (treatment of abnormal increases in gastrointestinal
       motility with verapamil)
    Carbohydrates, biological studies
IT
    Polyesters, biological studies
    Polyoxyalkylenes, biological studies
    Polyurethanes, biological studies
        (treatment of abnormal increases in gastrointestinal
       motility with verapamil)
IT
    Polymers, biological studies
        (water insol.; treatment of abnormal increases in
        gastrointestinal motility with verapamil)
IT
    Polymers, biological studies
        (water-sol.; treatment of abnormal increases in
        gastrointestinal motility with verapamil)
IT
    9002-88-4, Poly(ethylene)
        (high and low d.; treatment of abnormal increases in
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gastrointestinal motility with verapamil)
     7361-61-7, Xylazine 10238-21-8, Glibenclamide 19216-56-9,
IT
     Prazosin 38304-91-5, Minoxidil
        (treatment of abnormal increases in gastrointestinal
        motility with verapamil)
     21829-25-4, Nifedipine 36622-29-4, (S)-Verapamil 38321-02-7,
IT
     (R)-VERAPAMIL
        (treatment of abnormal increases in gastrointestinal
        motility with verapamil)
     9002-86-2, Poly(vinyl chloride) 9003-20-7, Poly(vinylacetate)
IT
     9003-21-8, Poly(methyl acrylate) 9003-42-3, Poly(ethyl
     methacrylate) 9003-44-5, Poly(vinyl isobutyl ether) 9003-63-8,
     Poly(butylmethacrylate) 9004-34-6, Cellulose, biological studies
     9004-35-7, Cellulose acetate 9004-36-8, Cellulose acetate butyrate
     9004-38-0, Cellulose acetate phthalate 9004-39-1, Cellulose
     acetate propionate 9004-48-2, Cellulose propionate 9004-57-3,
                    9004-64-2, Hydroxypropyl cellulose 9004-65-3,
     Ethylcellulose
     Hydroxypropylmethylcellulose 9004-67-5, Methylcellulose
     9005-25-8, Starch, biological studies 9011-14-7, Poly(methyl
                    9011-15-8, Poly(isobutyl methacrylate) 9012-09-3,
     methacrylate)
     Cellulose triacetate 25038-59-9, Poly(ethylene terephthalate),
     biological studies 25087-17-6, Poly(hexylmethacrylate)
     25189-01-9, Poly(phenylmethacrylate) 25322-68-3, Polyethylene
             25719-52-2, Poly(lauryl methacrylate) 25986-77-0,
     glycol
     Poly(octadecylacrylate) 26124-32-3, Poly(isopropyl acrylate)
     26335-74-0, Poly(isobutylacrylate) 37200-12-7, Poly(isodecyl
    methacrylate)
        (treatment of abnormal increases in gastrointestinal
       motility with verapamil)
L21 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                        2003:334877 HCAPLUS
DOCUMENT NUMBER:
                        138:343897
TITLE:
                        Gastric-retentive losartan dosage form for
                        hypertension treatment
                        Devane, John; Cumming, K. Iain; Hou,
INVENTOR(S):
                        Sui Yuen Eddie; Gusler, Gloria M.
PATENT ASSIGNEE(S):
                        Depomed, Inc., USA
SOURCE:
                        PCT Int. Appl., 31 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
                        KIND
                                         APPLICATION NO.
                                                                 DATE
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WO 2003035039
                          A1
                                20030501
                                             WO 2002-IB5438
                                                                    200210
                                                                    25
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
             LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
             NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
             TG
     CA 2464561
                          AΑ
                                20030501
                                             CA 2002-2464561
                                                                    200210
                                                                    25
     US 2003158244
                          Α1
                                20030821
                                            US 2002-280852
                                                                    200210
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     EP 1438027
                          Α1
                                20040721
                                             EP 2002-781664
                                                                    200210
                                                                    25
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
             PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                                           JP 2003-537606
     JP 2005508358
                          T2
                                20050331
                                                                    200210
                                                                    25
PRIORITY APPLN. INFO.:
                                            US 2001-335247P
                                                                    200110
                                                                    25
                                            WO 2002-IB5438
                                                                    200210
                                                                    25
AB
     A method of treatment for hypertension and other disease states
     comprises the delivery of losartan in a gastric-retentive dosage
            Thus tablets were obtained from losartan potassium 8.3, PEG
     25.0, HPMC 25.0, lactose monohydrate 40.7, and Mg stearate 1 mg.
```

- IC ICM A61K009-20
  - ICS A61K031-415
- CC 63-6 (Pharmaceuticals)
  - Section cross-reference(s): 1
- IT Intestine

(duodenum; gastric-retentive losartan dosage form for hypertension treatment)

IT Intestine (small; gastric-retentive losartan dosage form for hypertension treatment)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:518455 HCAPLUS

DOCUMENT NUMBER:

129:239401

TITLE:

Assessment of regional differences in intestinal fluid movement in the rat

using a modified in situ single pass perfusion

model

AUTHOR(S):

Raoof, Araz A.; Butler, Jackie; Devane,

John G.

CORPORATE SOURCE:

IVIVR Cooperative Working Group, Elan

Pharmaceutical Technologies, Athlone, Ire.

SOURCE:

Pharmaceutical Research (1998), 15(8), 1314-1316

CODEN: PHREEB; ISSN: 0724-8741

PUBLISHER:

Plenum Publishing Corp.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Transmucosal fluid movement was investigated in 3 different regions AB of the rat intestine (upper small intestine, lower small intestine and the large intestine) using a developed in situ single pass perfusion model automated to perfuse 12 rats simultaneously. 14C-polyethylene glycol 4000 (14C-PEG) was used as an impermeable marker for measuring net water flux with antipyrine as a transcellular passively absorbed marker. Antipyrine is totally absorbed for the gut following oral administration and its intestinal absorption, using in situ single pass perfusion in rats, was shown to increase and decrease considerably with fluid absorption and secretion, resp. The variation in the intestinal fluid movement obsd. in this study did not affect regional absorption of the passively absorbed compd. antipyrine. The effect of such variation on the regional absorption of carrier mediated compds., nevertheless, remains unclear. The results are discussed in relation to the prediction of drug absorption after oral administration.

CC 1-1 (Pharmacology)

ST intestine fluid movement model drug absorption

IT Intestine

(assessment of regional differences in **intestinal** fluid movement in rat using a modified in situ single pass perfusion model)

IT Biological transport

(drug; assessment of regional differences in intestinal fluid movement in rat using a modified in situ single pass

perfusion model)

IT Biological transport

(uptake; assessment of regional differences in intestinal fluid movement in rat using a modified in situ single pass perfusion model)

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L21 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:481723 HCAPLUS

DOCUMENT NUMBER:

129:235493

TITLE:

What is the gastrointestinal transit

of very small particles in humans?

AUTHOR(S):

SOURCE:

Brown, J.; Ramtoola, Z.; Cumming, I.; Butler,

J.; Devane, J. G.; Wilding, I. R.

CORPORATE SOURCE:

OICLI.

Pharmaceutical Profiles Limited, Nottingham, UK

Proceedings of the International Symposium on

Controlled Release of Bioactive Materials

(1998), 25th, 126-127

CODEN: PCRMEY; ISSN: 1022-0178 Controlled Release Society, Inc.

PUBLISHER:

Journal

DOCUMENT TYPE: LANGUAGE:

English

AB The gastrointestinal transit properties of 3 very small formulations were comparable to those reported previously for conventional multiparticulate prepns. which will be advantageous in their use for oral peptide and antigen delivery. In addn. the study offers a new strategy for the neutron activation radiolabeling of small particles using Sm acetylacetonate which significantly extends the versatility fo scintigraphy as applied to the oral route.

CC 63-5 (Pharmaceuticals)

ST oral microparticle gastrointestinal transit

9

IT Digestive tract

Particle size

Scintigraphy

(gastrointestinal transit of very small particles in humans)

IT Drug delivery systems

(microparticles, oral; gastrointestinal transit of very small particles in humans)

IT 14589-42-5, Samarium acetylacetonate

(gastrointestinal transit of very small particles in humans)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN ANSWER 12 OF 16

ACCESSION NUMBER:

1998:234304 HCAPLUS

DOCUMENT NUMBER:

128:261801

TITLE:

AUTHOR(S):

A novel multiunit controlled-release system Butler, J.; Cumming, I.; Brown, J.; Wilding, I.;

Devane, J. G.

CORPORATE SOURCE:

Elan Pharmaceutical Technologies, Athlone, Ire.

SOURCE:

Pharmaceutical Technology (1998), 22(3),

122,124,126,128,130,132,134,138 CODEN: PTECDN; ISSN: 0147-8087 Advanstar Communications, Inc.

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE: English AB

PRODAS is a controlled-release system that combines the advantages of tablet-based technol. with presentation as a multiunit system, thus avoiding the potential problem of single-unit systems for complete dose failure or dose dumping. It also allows for customized delivery in terms of combinations of release rates and mechanisms as well as targeted release to different segments of the GI tract. This article describes a study that compared the GI transit of PRODAS with that of a traditional multiparticulate system under fasted and fed conditions using the noninvasive technique of .gamma.-scintigraphy. Transit characteristics of the multiunit formulation were similar to those of the multi-particulate formulation, indicating that the multiunit technol. achieved the same relative independence to GI transit characteristics as multiparticulate systems.

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 1

IT Intestine

> (colon; multiunit controlled-release drug delivery system)

Intestine

(small; multiunit controlled-release drug delivery system)

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE 17 FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN L21 ANSWER 13 OF 16

ACCESSION NUMBER:

1998:6895 HCAPLUS

DOCUMENT NUMBER:

128:123394

TITLE:

Comparison of methodologies for evaluating

regional intestinal permeability

AUTHOR(S):

Raoof, A.; Moriarty, D.; Brayden, D.; Corrigan,

O. I.; Cumming, I.; Butler, J.; Devane,

CORPORATE SOURCE:

Elan Corp. Plc, Athlone, Ire.

SOURCE:

Advances in Experimental Medicine and Biology

(1997), 423 (In Vitro-In Vivo Correlations),

181-189

CODEN: AEMBAP; ISSN: 0065-2598

PUBLISHER:

Plenum Publishing Corp.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The authors compared the permeability of a no. of drug candidates AB for inclusion in extended release products. The following 3 model systems were used: the in vitro vascularly perfused rat gut segment, the in situ (single pass) rat gut perfusion system and the Caco-2 cell monolayer system. In the two rat gut systems, three sep. sections of gut were investigated, the uppers mall intestine , the lower small intestine and the large intestine. In general, the compds. studied in the rat models were found to have a high permeability relative to marker compds. atenolol and antipyrine which are poor and high permeability marker compds., resp. The permeability trends obtained using the in vitro model were similar to those obtained using the in situ model, i.e., both sets of values were found to decrease distally from duodenum to colon. Due to differences, no correlation was established between the three different models.

CC 1-1 (Pharmacology)

Section cross-reference(s): 63

ST drug intestine permeability methodol

IT Animal cell line

(Caco-2; comparison of methodologies for evaluating regional intestinal permeability of drugs)

IT Drug bioavailability

Drug delivery systems

Intestine

Permeability

(comparison of methodologies for evaluating regional intestinal permeability of drugs)

IT Biological transport

(drug; comparison of methodologies for evaluating regional intestinal permeability of drugs)

REFERENCE COUNT:

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1995:496048 HCAPLUS

DOCUMENT NUMBER:

122:298853

TITLE:

The effect of food on the

gastrointestinal transit and systemic
absorption of naproxen from a novel

sustained-release formulation

AUTHOR(S):

Kenyon, C. J.; Hooper, G.; Tierney, D.; Butler,

J.; Devane, J.; Wilding, I. R.

Pharmaceutical Profiles Limited, 2 Faraday CORPORATE SOURCE:

Building, Highfields Science Park, Nottingham, NG7 2QP, NG7 2QP, UK

Journal of Controlled Release (1995), 34(1), SOURCE:

31-6

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER: Elsevier DOCUMENT TYPE: Journal English LANGUAGE:

The in vivo behavior of a novel sustained-release formulation of AB naproxen was investigated using gamma scintigraphy in eight healthy male volunteers under fasted and fed conditions. Disintegration of the tablet into discrete sustained-release pellets occurred in the stomach shortly after administration. Feeding resulted in a lag time prior to the onset of gastric emptying but food did not affect transit through the small intestine. Post-prandial administration of the sustained-release formulation did not affect the disintegration of the tablet or the bioavailability of the drug.

63-5 (Pharmaceuticals) CC

Section cross-reference(s): 1

IT Intestine

> (small, food interaction with naproxen bioavailability from sustained-release tablets in humans)

L21 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:476353 HCAPLUS

DOCUMENT NUMBER: 117:76353

New developments in sustained-release TITLE:

> antihypertensive therapy: formulation and

pharmacokinetic considerations

Devane, John G.; Mulligan, Seamus; AUTHOR (S):

Kavanagh, M.; Davis, Stanley S.; Sparrow, Robert

A.; Wilding, Ian R.

CORPORATE SOURCE:

Elan Pharm. Res. Corp., Gainesville, GA, USA SOURCE: American Journal of Cardiology (1992), 69(13),

23E-27E

CODEN: AJCDAG; ISSN: 0002-9149

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In order to achieve a consistently absorbed form of nifedipine over 24 h, a novel formulation approach, INDAS, was used to develop a once-daily, sustained-release (SR) form of nifedipine that could provide effective control of blood pressure at a low total daily The pharmacokinetic characteristics of this new formulation of nifedipine-SR were compared with those of divided doses of conventional nifedipine. The SR formulation achieved a lower peak plasma nifedipine level but with a prolonged plasma profile

characterized by an extended time to peak plasma levels (Tmax), a higher trough plasma level, a longer apparent half-life, and a markedly lower peak-to-trough fluctuation in plasma nifedipine In a sep. study, the gastrointestinal transit parameters and phys. characteristics of the SR tablet were This study established that the large intestine is the major site of residence and absorption for this dosage form. The phys. erosion and disintegration characteristics of the SR formulation are such that a well-maintained absorption of nifedipine is consistently achieved over the 24-h dosing interval.

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 1

Intestine, metabolism IT

> (large, nifedipine absorption by, from sustained-release tablets in humans, in antihypertensive therapy)

L21 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:412445 HCAPLUS

DOCUMENT NUMBER:

111:12445

TITLE:

Pharmacokinetic properties and clinical efficacy

of once-daily sustained-release naproxen

AUTHOR(S):

Kelly, J. G.; Kinney, C. D.; Devane, J.

G.; Mulligan, S.; Colgan, B. V.

CORPORATE SOURCE:

Inst. Biopharm., Athlone, Ire.

SOURCE:

European Journal of Clinical Pharmacology

(1989), 36(4), 383-8

CODEN: EJCPAS; ISSN: 0031-6970

DOCUMENT TYPE:

Journal LANGUAGE: English

The pharmacokinetics and clin. efficacy of a once-daily AB sustained-release formulation of naproxen (sodium salt) were compared with those of conventional-release agents. single-dose pharmacokinetic study, the rate of absorption of the sustained-release prepn. was less than that of a conventional-release prepn. but the extent of absorption was the same. As is the case with conventional-phase naproxen, food decreased the rate but not the extent of absorption of the sustained-release formulation. On multiple-dose administration for 7 days, the area under the concn.-time curve) and av. concns. of the sustained-release prepn. (1 g daily) were the same as those for conventional-release prepns. of naproxen sodium (250 mg 4 times daily) and naproxen free acid (500 mg daily). conventional-release sodium salt was absorbed more quickly, with no differences in bioavailability. A double-blind clin. comparison in patients with osteoarthritis showed the sustained-release prepn. (1 g daily) to be equiv. in efficacy to conventional naproxen capsules (500 mg twice daily) but to give a lower incidence of gastrointestinal side-effects. The results suggest that

sustained-release naproxen sodium has potential for use as a once-daily treatment for inflammatory disease.
63-5 (Pharmaceuticals)

CC

Section cross-reference(s): 1